

Power PCB Relay RT Inrush Power (Continued)

Coil Data (continued),

bistable coils	1 coil	2 coils
Magnetic system	polarized, bistable	
Coil voltage range	3 to 24VDC	
Operative range, IEC 61810	2	
Limiting voltage, % of rated coil voltage	120%	150%
Min./Max. energization duration	30ms/1min at <10% duty factor	
Coil insulation system according UL1446	class F	

Coil Data RT.3T RTS3L

Coil versions, bistable					
Coil code	Rated voltage VDC	Set voltage VDC	Reset voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Coil versions, bistable 1 coil					
A03	3	2.1	1.7	21	429
A12	12	8.4	6.6	360	400
A24	24	16.8	13.2	1440	400
Coil versions, bistable 2 coils					
F03	3	2.1	1.7	15	600
F12	12	8.4	6.6	240	600
F24	24	16.8	13.2	886	650

All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Coil Data RTSET

Coil versions, bistable					
Coil code	Rated voltage VDC	Set voltage VDC	Reset voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Coil versions, bistable 1 coil					
A03	3	2.1	1.8	21	429
A12	12	8.4	7.2	360	400
A24	24	16.8	14.4	1440	400
Coil versions, bistable 2 coils					
F03	3	2.1	1.8	15	600
F12	12	8.4	7.2	240	600
F24	24	16.8	14.4	886	650

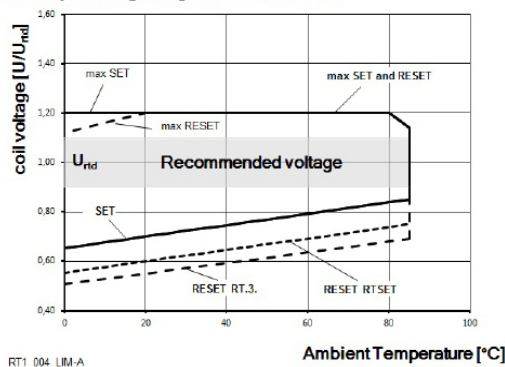
All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Bistable coils - operation

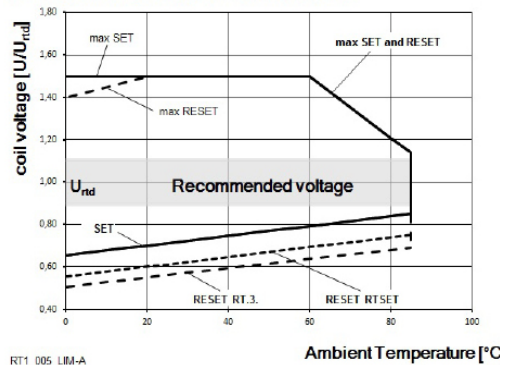
Version	1 coil			2 coils		
Coil terminals	A1	A2		A1	A3	A2
Operate	+	-		+	-	
Reset	-	+		-	+	

Contact position not defined at delivery

Coil operating range: 1 bistable coil



Coil operating range: 2 bistable coils



Insulation Data

Initial dielectric strength	
between open contacts	1250V _{ms}
between contact and coil	5000V _{ms}
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIla
Tracking index of relay base	PTI 250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter

Ambient temperature RT.3T / RTS3L

monostable DC coil	-40 to 105°C
bistable 1 coil	-10 to 105°C
bistable 2 coils	-40 to 105°C

Ambient temperature RTSET

monostable DC coil	-40 to 85°C
bistable 1 coil	-10 to 85°C
bistable 2 coils	-40 to 85°C

	RT.3T / RTSET	RTS3L
Category of environmental protection	RTII - flux proof	
IEC 61810		
RTIII - wash tight available upon request		
Vibration resistance (functional), monostable version	10g	20g
Shock resistance (destructive)	100g	
Terminal type	PCB-THT, plug-in ²⁾	
Weight, without / with test tab	14/16g	14g/-
Resistance to soldering heat THT	270°C/10s	
IEC 60068-2-20		

	RT.3T / RTSET	RTS3L
Packaging/unit		
without test tab	tube/20 pcs., box/500 pcs.	tube/20 pcs., box/500 pcs.
with test tab	tray/25 pcs., box/100 pcs.	-

2) RTT3T or bistable 2 coil version: PCB mounting only. See Accessories.

Accessories RTS.

For details see datasheet [Accessories Industrial Power Relay RT](#)
Socket available for 1 coil version only.

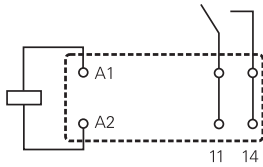
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

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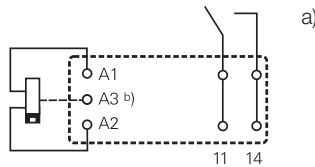
Terminal assignment

Bottom view on solder pins

monostable version



bistable version

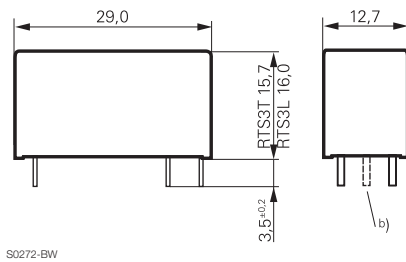


a) Indicated contact position during or after coil energization with reset voltage.

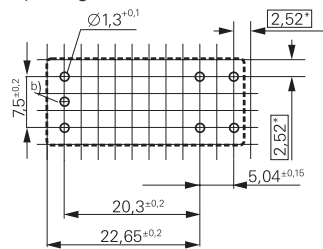
b) for 2 coil version only

Dimensions / PCB layout

version without test tab

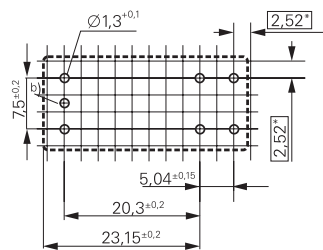
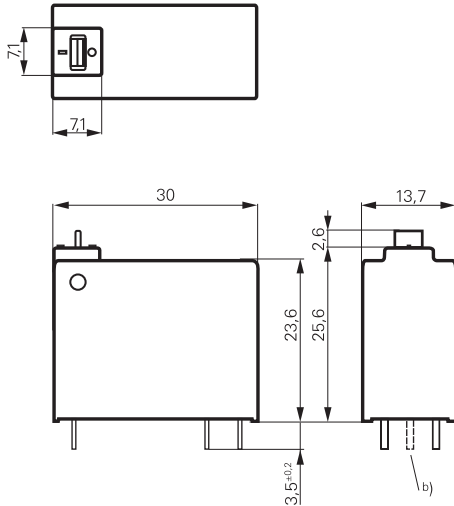


16A, pinning 5mm



b) for 2 coil version only

version with test tab



*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

Power PCB Relay RT Inrush Power (Continued)
Product code structure

Typical product code

RT S 3 T A12
Type
RT Power PCB Relay RT1 Inrush Power

Version
S Without test tab

T With test tab (manual operator)
for version ,RTT3T' bistable coil only

Contact configuration
3 1 form A (NO) contact

E 1 form A(NO) ,electronic ballast' contact

Contact material
L AgSnO₂
T Tungsten (W) pre-make + AgSnO₂
Coil

Coil code: please refer to coil versions table

Version
Blank Standard Version

WG Product in accordance to IEC 60335-1

Product code	Version	Contacts	Contact material	Coil version	Coil	Version	Part number
RTS3L005	Without test tab,	1 form A (NO)	AgSnO ₂	Monostable	5VDC	Standard	1-1415898-8
RTS3L006	16mm high	contact			6VDC		4-1415898-4
RTS3L012					12VDC		1-1415898-9
RTS3L024					24VDC		1-1415898-4
RTS3LA12				Bistable, 1 coil	12VDC		2-1415898-3
RTS3LF12				Bistable, 2 coils	12VDC		2-1415898-5
RTS3LF24					24VDC		2-1415898-6
RTS3T005	Without test tab,		W pre-make + AgSnO ₂	Monostable	5VDC		1-1415898-6
RTS3T012	15.7mm high				12VDC		1415898
RTS3T024					24VDC		1415898-1
RTS3L048					48VDC		2-1415898-1
RTS3T048					48VDC		1-1415898-1
RTS3T060					60VDC		1-1415898-2
RTS3TA05				Bistable, 1 coil	5VDC		1-1415898-5
RTS3TA06					6VDC		3-1415898-1
RTS3TA12					12VDC		1415898-2
RTS3TF03				Bistable, 2 coils	3VDC		1415898-4
RTS3TF12					12VDC		1415898-5
RTS3TF24					24VDC		1415898-6
RTT3TA12	With test tab,			Bistable, 1 coil	12VDC		1415898-7
RTT3TF24	23.6mm high			Bistable, 2 coils	24VDC		1-1415898-0
RTS3L012WG	Without test tab,	1 form A (NO)	AgSnO ₂	Monostable	12VDC	IEC60335-1	2-1415898-7
RTS3L024WG	15.7 mm high	contact			24VDC	compliant	5-1415898-1
RTS3T012WG			W pre-make + AgSnO ₂		12VDC		5-1415898-6
RTS3TA24WG				Bistable 1 coil	24VDC		4-1415898-7
RTSET005	Without test tab,	1 form A (NO)	W pre-make + AgSnO ₂	Monostable	5VDC	Standard	7-1415898-7
RTSET012	15.7mm high	contact			12VDC		7-1415898-9
RTSET024					24VDC		8-1415898-0
RTSETA12				Bistable, 1 coil	12VDC		8-1415898-6
RTSETA24					24VDC		8-1415898-7
RTSETF12				Bistable, 2 coils	12VDC		9-1415898-1
RTSETF24					24VDC		9-1415898-3

This list represents the most common types and does not show all variants covered by this datasheet.
Other types on request.